

MULTI-AXIS TOOL POSITIONER AND RELATED METHODS

ABSTRACT OF THE DISCLOSURE

5 Disclosed herein are positioning devices and related methods of positioning a tool in a desired location. In one exemplary embodiment, a positioning device includes a base having a length extending along a first horizontal axis. In addition, the positioning device includes a first arm coupled to the base and extending therefrom along a second horizontal axis perpendicular to the first horizontal axis. The first arm is
10 configured for linear movement across the base along the first horizontal axis. The positioning device also includes a second arm coupled to the first arm carriage and extending therefrom along a vertical axis, where the second arm is configured for linear movement along the second horizontal axis. Moreover, in this embodiment, the second arm is also configured to pivot about a first rotational axis parallel to the first horizontal
15 axis. Also in this embodiment, the positioning device includes an extending arm coupled to the second arm and parallel therewith, and configured for linear movement along the vertical axis and for rotational movement about a second rotational axis parallel to the vertical axis.

DALLIB1, 468840.2